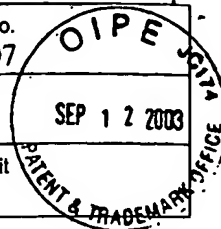


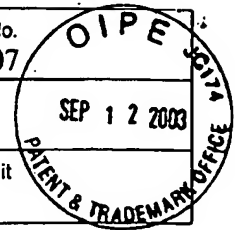
Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10559-606001	Application No. 10/007,007
	Applicant William R. Wheeler et al.		
	Filing Date December 4, 2001	Group Art Unit	



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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
RG	AA	5,598,347	01/28/1997	Iwasaki			
RG	AB	RE 38,059	04/01/2003	Yano et al.			
RG	AC	6,574,787	06/03/2003	Anderson			
RG	AD	6,539,536	03/25/2003	Singh et al.			
RG	AE	6,523,156	02/18/2003	Cirit			
RG	AF	6,477,688	11/05/2002	Wallace			
RG	AG	6,440,780	08/27/2002	Kimura et al.			
RG	AH	6,438,731	08/20/2002	Segal			
RG	AI	6,421,816	07/16/2002	Ishikura			
RG	AJ	6,401,230	06/04/2002	Ahanessians et al.			
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RG	AL	6,353,915	03/05/2002	Deal et al.			
RG	AM	6,327,693	12/04/2001	Cheng et al.			
RG	AN	6,292,931	09/18/2001	Dupenloup			
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RG	AP	6,216,256	04/10/2001	Inoue et al.			
RG	AQ	6,044,211	03/28/2000	Jain			
RG	AR	5,892,682	04/06/1999	Hasley et al.			
RG	AS	5,841,663	11/24/1998	Sharma et al.			
RG	AT	5,724,250	03/03/1998	Kerzman et al.			
RG	AU	5,685,006	11/04/1997	Shiraishi			
RG	AV	5,663,662	09/02/1997	Kurosawa			
RG	AW	5,568,397	10/22/1996	Yamashita et al.			
RG	AX	5,475,605	12/12/1995	Lin			
RG	AY	5,287,289	02/15/1994	Kageyama et al.			
RG	AZ	4,703,435	10/27/1987	Darringer et al.			
	AAA						

Examiner Signature 	Date Considered June 7 2005
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10559-606001	Application No. 10/007,007
	Applicant William R. Wheeler et al.		
	Filing Date December 4, 2001	Group Art Unit	



Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
RG	ABB	JP 2001068994	03/16/2001	Japan	RECEIVED		Abstract only	
RG	ACC	EP 720233	07/03/1996	European Patent	SEP 16	2003	X	
RG	ADD	JP 07049890	02/21/1995	Japan	Technology Center 2100		Abstract only	
RG	AEE	JP 58060559	04/11/1983	Japan			Abstract only	
	AFF							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
RG	AGG	NN8006341, "Macro Physical-To-Logical Checking LSI Chip Design", IBM Technical Disclosure Bulletin, Vol. 23, No. 1, June 1980, pp. 341-345 (7pages)
RG	AHH	Kutzschebauch, "Efficient logic optimization using regularity extraction", Proceedings of 2000 International Conference on Computer Design, 17 September 2000, pp. 487-493.
	AII	
	AJJ	

Examiner Signature <i>R. Gull</i>	Date Considered <i>June 7 2005</i>
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10559/606001/P12890	Application No. 10/0072007
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant William R. Wheeler et al.	
		Filing Date December 4, 2001	Group Art Unit 2819

U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
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Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

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Examiner Initial	Desig. ID	Document
RG	AQ	Mentor Graphics Corporation, Renoir™ With HDL2Graphics™, 1998, Oregon
RG	AR	Mentor Graphics Corporation, Renoir HDL Design Datasheet, 1999, Oregon
	AS	
	AT	

Examiner Signature <i>E. G. 20</i>	Date Considered <i>June 7 2005</i>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10559-606001 ✓	Application No. 10/007,007 ✓
	Applicant William R. Wheeler et al. ✓		
	Filing Date December 4, 2001 ✓	Group Art Unit	

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
RL	AA	2002/0049957	04/2002	Hosono et al.			
RL	AB	6,233,723	05/2001	Pribetich			
RL	AC	5,828,581	10/1998	Matumura			
RL	AD	2001/0018758	08/2001	Tanaka et al.			
RL	AE	5,666,289	09/1997	Watkins			
RL	AF	6,066,179	05/2000	Allan			
RL	AG	5,892,678	04/1999	Tokunoh et al.			
RL	AH	6,120,549	09/2000	Goslin et al.			
RL	AI	5,513,119	04/1996	Moore et al.			
RL	AJ	6,477,683	11/2002	Killian et al.			
RL	AK	6,505,341	01/2003	Harris et al.			
RL	AL	2003/0005396	01/2003	Chen et al.			
RL	AM	5,553,002	09/1996	Dangelo et al.			
RL	AN	6,366,874	04/2002	Lee et al.			
RL	AO	6,044,211	03/2000	Jain			
RL	AP	5,258,919	11/1993	Yamanouchi et al.			
RL	AQ	5,220,512	06/1993	Watkins et al.			
RL	AR	6,324,678	11/2001	Dangelo et al.			
RL	AS	6,236,956	05/2001	Mantooth et al.			
RL	AT	6,132,109	10/2000	Gregory et al.			
RL	AU	5,963,724	10/1999	Mantooth et al.			
RL	AV	5,852,564	12/1998	King et al.			
RL	AW	6,106,568	08/2000	Beausang et al.			
RL	AX	6,219,822	04/2001	Griestede et al.			
RL	AY	5,128,871	07/1992	Schmitz			
RL	AZ	5,506,788	04/1996	Cheng et al.			
RL	AAA	6,457,164	09/2002	Hwang et al.			

Examiner Signature

L. G. Gill

Date Considered

June 7 2005

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		Filing Date December 4, 2001	Group Art Unit Technology Center 2100

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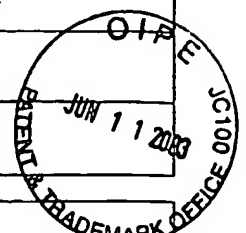
Technology Center 2100

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
RC	ABB	2002/0042904	04/2002	Ito et al.			
RC	ACC	6,449,762	09/2002	McElvain			
RC	ADD	6,378,115	04/2002	Sakurai			
RC	AEE	6,272,671	08/2001	Fakhry			
RC	AFF	6,260,179	07/2001	Ohsawa et al.			
RC	AGG	6,117,183	09/2000	Teranishi et al.			
RC	AHH	5,889,677	03/1999	Yasuda et al.			
RC	AII	6,298,468	10/2001	Zhen.			
RC	AJJ	6,477,689	11/2002	Mandell et al.			
RC	AKK	6,480,985	11/2002	Reynolds et al.			
RC	ALL	6,519,755	02/2003	Anderson			
RC	AMM	6,152,612	11/2000	Liao et al.			
RC	ANN	2002/0023256	02/2002	Seawright			
RC	AOO	6,053,947	04/2000	Parson			
RC	APP	6,135,647	10/2000	Balakrishnan et al			
RC	AQQ	2003/0016246	01/2003	Singh			
RC	ARR	2003/0016206	01/2003	Taitel			
RC	ASS	6,233,540	05/2001	Schaumont et al.			
RC	ATT	6,487,698	11/2002	Andreev et al.			
RC	AUU	6,311,309	10/30/2001	Southgate			
RC	AVV	2002/0166100	11-2002	Meding			
RC	AWW	US 5,629,857	05-1997	Brennan			
RC	AXX	2002/0046386	04-2002	Skoll et al.			
RC	AYY	6,401,230	06/2002	Ahanessians et al.			
RC	AZZ	5,933,356	08/1999	Rostoker et al.			
RC	AAAA	6,205,573	03/2001	Hasegawa			
	ABBB						

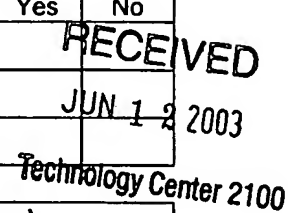
Examiner Signature <i>R. Gull</i>	Date Considered <i>June 7 2003</i>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10559-606001	Application No. 10/007,007
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		Filing Date December 4, 2001	Group Art Unit



U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	ACCC						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	ADDD							
	AEEE							
	AFFF							



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RG	AGGG	Foley et al., "An Object Based Graphical User Interface for Power Systems", IEEE Transactions on Power Systems, Vol. 8, No. 1, February 1993, pp. 97-104.
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RG	AIII	Renoir, HDL Design Datasheet, Mentor Graphics, 1-8, 1999.
RG	AJJJ	Mentor Graphics Corporation, Renoir™.With HDL2Graphics™, pp. 1-6, 1998, Oregon.
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RG	ALLL	Computer Design, "AFTER HARD KNOCKS, CYCLE-BASED SIMULATORS STAND THEIR GROUND". http://www.computer-design.com/Editorial/1996/10/ASIC/after.html , accessed on August 23, 2001, pages 1-5.
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	ANNN	
	AOOO	

Examiner Signature <i>R. G. 200</i>	Date Considered <i>June 7 2005</i>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10559-606001	Application No. 10/007,007
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		Filing Date December 4, 2001	Group Art Unit

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RG	AB	5,212,650	05/1993	Hooper, et al.			
RG	AC	5,267,175	11/1993	Hooper			
RG	AD	5,278,769	01/1994	Bair, et al.			
RG	AE	5,297,053	03/1994	Pease, et al.			
RG	AF	5,301,318	04/1994	Mittal			
RG	AG	5,384,710	01/1995	Lam, et al.			
RG	AH	5,493,507	02/1996	Shinde, et al.			
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RG	AK	5,604,894	02/1997	Pickens, et al.			
RG	AL	5,673,198	09/1997	Lawman, et al.			
RG	AM	5,694,579	12/1997	Razdan, et al.			
RG	AN	5,706,476	01/1998	Giramma			
RG	AO	5,717,928	02/1998	Campmas, et al.			
RG	AP	5,757,655	05/1998	Shih, et al.			
RG	AQ	5,809,283	09/1998	Vaidyanathan, et al.			
RG	AR	5,831,869	11/1998	Ellis, et al.			
RG	AS	5,903,469	05/1999	Ho			
RG	AT	5,937,190	08/1999	Gregory, et al.			
RG	AU	5,974,242	10/1999	Damarla, et al.			
RG	AV	6,077,304	06/2000	Kasuya			
RG	AW	6,161,211	12/2000	Southgate			
RG	AX	6,178,541	01/2001	Joly, et al.			
RG	AY	6,208,954	03/2001	Houtchens			
RG	AZ	6,226,780	05/2001	Bahra, et al.			
RG	AAA	6,234,658	05/2001	Houldsworth			

Examiner Signature

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Date Considered

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(37 CFR §1.98(b))

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
EG	ABB	6,353,806	03/2002	Gehlot			
EG	ACC	6,360,356	03/2002	Eng			
EG	ADD	6,381,563	04/2002	O'Riordan, et al.			
EG	AEE	6,438,729	08/2002	Ho			
EG	AFF	6,473,885	10/2002	Wallace			
EG	AGG	6,490,545	12/2002	Peng			
EG	AHH	6,505,328	01/2003	Van Ginneken, et al.			
EG	AII	6,516,456	02/2003	Garnett, et al.			
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EG	AKK	6,546,528	04/2003	Sasaki, et al.			
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EG	AOO	2002/0112221	08/2002	Ferreri, et al.			
EG	APP	2002/0138244	09/2002	Meyer			
EG	AQQ	2003/0004699	01/2003	Choi, et al.			
EG	ARR	2003/0036871	02/2003	Fuller, et al.			
EG	ASS	2003/0177455	09/2003	Kaufman, et al.			

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Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
EG	ATT	0 404 482	12/1990	EPO				
EG	AUU	0 433 066	06/1991	EPO				
EG	AVV	0 901 088	03/1999	EPO				
EG	AWW	1 065 611	01/2001	EPO				
EG	AXX	03-225523	10/1991	Japan				
EG	AYY	08-314892	11/1996	Japan				

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K. Gwill

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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
PL	AZZ	WO 98/37475	08/1998	WIPO				
PL	AAAA	WO 98/55879	12/1998	WIPO				
PL	ABBB	WO 99/39268	08/1999	WIPO				
PL	ACCC	WO 00/65492	11/2000	WIPO				

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Examiner Initial	Desig. ID	Document
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PL	AHHH	NB84035598, "Binary Relational Schema to Model Structured LSI Design", IBM Technical Disclosure Bulletin, Vol. 26, No. 10B, March 1984, pp. 5598-5601.
PL	AIII	NN7807629, "Functional Oriented Symbolic Macromodeling Algorithm", IBM Technical Disclosure Bulletin, Vol. 21, No. 2, July 1978, pp. 629-631.
PL	AJJJ	NN9407481, "Functional Modeling using object Collaboration Diagram", IBM Technical Disclosure Bulletin, Vol. 37, No. 7, July 1994, pp. 481-486.
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PL	ALLL	Su, Stephen, "An Interactive Design Automation System", <i>Proceedings of the 10th Design Automation Workshop on Design Automation</i> , pp. 253-261, June 1973
PL	AMMM	Yli-Pietila, et al., "The Design and Simulation of Complex Multitechnology Systems", IEEE International Conference on Systems Engineering, August 9, 1990, pp. 474-477.

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